

IN THE CLAIMS:

1-20. (Cancelled)

21. (Previously Presented) A medical apparatus, comprising:
a body cavity inserting portion which is inserted into a body and which has a thrust-generating spiral projected portion in contact with a body cavity; and
rotating device for rotating the thrust-generating spiral projected portion,
wherein
the thrust-generating spiral projected portion is set to have a shape with a projection height from not less than 0.3 mm to not more than 3 mm.

22. (Previously Presented) The medical apparatus according to Claim 21,
wherein the rotating device rotates at a rotation speed of not more than 5 rotations per second.

23. (Previously Presented) The medical apparatus according to Claim 21,
wherein the thrust-generating spiral projected portion is formed in a multi-spiral screw shape having not less than 2 spirals.

24. (Previously Presented) The medical apparatus according to Claim 21,
wherein the thrust-generating spiral projected portion has a cross sectional shape of at least one of a circle, a semicircle and a generally R shape.

25. (Previously Presented) The medical apparatus according to Claim 21,
wherein the thrust-generating spiral projected portion is non-continuously formed.

26. (Previously Presented) The medical apparatus according to Claim 21,
wherein the rotating device comprises:

a magnet provided in the body cavity inserting portion; and

a magnetic field generating device for generating a rotating magnetic held, the magnetic field generating device being provided outside of the body.

27. (Previously Presented) The medical apparatus according to Claim 21, wherein the body cavity inserting portion is a capsule medical apparatus.

28. (Previously Presented) The medical apparatus according to Claim 21, wherein:

the body cavity inserting portion includes a flexible stick portion; and
the thrust-generating spiral projected portion is supported rotatably with respect to the flexible stick portion.

29. (Previously Presented) The medical apparatus according to Claim 21, wherein:

the rotating device is a motor; and
the thrust-generating spiral projected portion is rotated by the motor.

30. (Canceled)

31. (Currently Amended) [[A]] The medical apparatus according to Claim 21, comprising wherein:

~~a body cavity inserting portion which is inserted into a body and which has a thrust-generating spiral projected portion in contact with a body cavity; and~~

~~rotating device for rotating the thrust-generating spiral projected portion;~~

~~wherein~~

the thrust-generating spiral projected portion is formed in a multi-spiral screw shape having not more than 10 spirals.

32. (Currently Amended) [[A]] The medical apparatus according to Claim 21,
comprising wherein:

~~a body cavity inserting portion which is inserted into a body and which has a
thrust-generating spiral projected portion in contact with a body cavity; and~~

~~rotating device for rotating the thrust-generating spiral projected portion,~~
wherein

a torque generated by the rotating device is set so as not to surpass a set value.

33. (Previously Presented) The medical apparatus according to Claim 32,
wherein a set value for the torque generated by the rotating device is configured to be
arbitrarily settable.

34. (Previously Presented) The medical apparatus according to Claim 32,
wherein the set value is set to from not less than 0.06 cNm to not more than 1 cNm.

35. (Previously Presented) The medical apparatus according to Claim 34,
wherein the body cavity inserting portion is a capsule medical apparatus.

36. (Currently Amended) [[A]] The medical apparatus according to Claim 21,
comprising wherein:

~~a body cavity inserting portion which is inserted into a body and which has a
thrust-generating spiral projected portion in contact with a body cavity; and~~

~~rotating device for rotating the thrust-generating spiral projected portion,~~
wherein

at least one of a rising angle and a failing angle at an end portion of the thrust-
generating spiral projected portion is smoothly formed at an angle not more than 45 degrees.

37. (Currently Amended) [[A]] The medical apparatus according to Claim 21,
comprising wherein:

~~a body cavity inserting portion which is inserted into a body and which has a
thrust-generating spiral projected portion in contact with a body cavity; and~~

~~rotating device for rotating the thrust-generating spiral projected portion;~~
~~wherein~~

the thrust-generating spiral projected portion has an outer diameter of not more
than 18 mm.

38. (Currently Amended) The medical apparatus according to Claim 21,
comprising wherein:

~~a body cavity inserting portion which is inserted into a body and which has a
thrust-generating spiral projected portion in contact with a body cavity; and~~

~~rotating device for rotating the thrust-generating spiral projected portion;~~
~~wherein~~

the thrust-generating spiral projected portion has at least one groove formed
along the spiral of the thrust-generating spiral projected portion, the groove having a depth
smaller than a height of the thrust-generating spiral projected portion.

39. (Currently Amended) The medical apparatus according to Claim 21,
comprising wherein:

~~a body cavity inserting portion which is inserted into a body and which has a
thrust-generating spiral projected portion in contact with a body cavity; and~~

~~rotating device for rotating the thrust-generating spiral projected portion;~~
~~wherein~~

the thrust-generating spiral projected portion is detachably attached to the body cavity inserting portion.

40. (Previously Presented) The medical apparatus according to Claim 39, wherein the thrust-generating spiral projected portion is formed of elastic rubber.

41. (Currently Amended) The medical apparatus according to Claim 21,
comprising wherein:

~~a body cavity inserting portion which is inserted into a body and which has a thrust-generating spiral projected portion in contact with a body cavity; and~~

~~rotating device for rotating the thrust-generating spiral projected portion,~~
~~wherein~~

the thrust-generating spiral projected portion has a generally trapezoidal cross sectional shape.

42. (Currently Amended) The medical apparatus according to Claim 21,
comprising wherein:

~~a body cavity inserting portion which is inserted into a body and which has a thrust-generating spiral projected portion in contact with a body cavity; and~~

~~rotating device for rotating the thrust-generating spiral projected portion,~~
~~wherein~~

the thrust-generating spiral projected portion has a spiral pitch which is set to not less than 10 mm.

43. (Currently Amended) The medical apparatus according to Claim 21,
comprising wherein:

~~a body cavity inserting portion which is inserted into a body and which has a thrust-generating spiral projected portion in contact with a body cavity; and~~

~~rotating device for rotating the thrust-generating spiral projected portion;~~

~~wherein~~

~~a center of gravity of the body cavity inserting portion substantially matches a longitudinal central axis of the body cavity inserting portion.~~

44-46. (Canceled)